SONY

2-318-613-**11** (1)

Personal Component System

Operating Instructions

This manual describes how to use the player. For the supplied software SonicStage, please see “Installation/Operating Guide.”

CMT-A70

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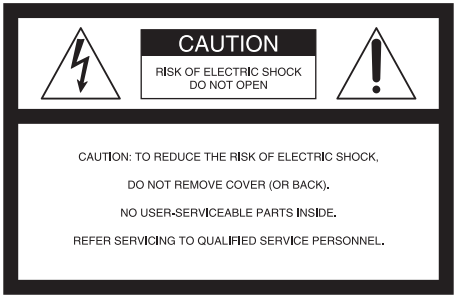
Warning

To prevent fire or shock hazard, do not expose the player to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION

The use of optical instruments with this product will increase eye hazard.

WARNING

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

To prevent fire or shock hazard, do not place objects filled with liquids, such as vases, on the appliance.

Information

For customers in the United States

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

This class B digital device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Owner's Record

The model number and the serial number are located at the rear.

Record the model number and the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. CMT-A70

Serial No. _____

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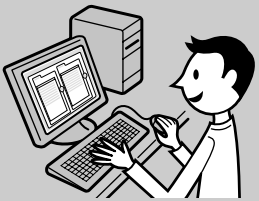
Create your own ATRAC CDs

In addition to the usual audio CDs, you can play an original CD, called “ATRAC CD,” that you create with the supplied software, SonicStage. Using SonicStage, about 30 audio CDs* can be recorded on one CD-R or CD-RW.

The following is a quick overview of how you listen to music on your ATRAC CD.

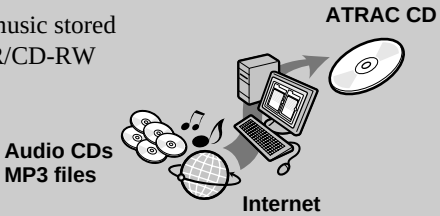
Install SonicStage on your computer.

SonicStage is software that takes music downloaded from audio CDs and the Internet on your computer and creates original CDs. It can be installed from the supplied CD-ROM.



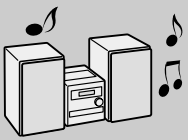
Create an ATRAC CD.

After selecting your favorite songs from music stored on your computer, record them on a CD-R/CD-RW using SonicStage.



Listen to them with this CD player.

You can enjoy lots of songs on your original CD.



Please see the supplied “Installation/Operating Guide” for how to install SonicStage and how to create ATRAC CDs.

* When the total playing time of one CD (album) is estimated at 60 minutes and you are recording on a 700MB CD-R/CD-RW at 48kbps in ATRAC3plus format.

Which discs can you play on this CD player?

Audio CDs:

CDDA format CDs

CDDA (Compact Disc Digital Audio) is a recording standard used for Audio CDs.

ATRAC CDs:

CD-R/CD-RW on which audio data compressed in the ATRAC3plus or/and ATRAC3 format has been recorded*

ATRAC3 (Adaptive Transform Acoustic Coding3) is audio compression technology that satisfies the demand for high sound quality and high compression rates. ATRAC3plus is audio compression technology developed from the ATRAC3 format and can compress audio files to about 1/20 of their original size at 64kbps.
You can create an ATRAC CD using SonicStage.

MP3 CDs:

CD-R/CD-RW on which audio data compressed in the MP3 format has been recorded*

MP3 (MPEG-1 Audio Layer3) is audio compression technology that can compress audio files to about 1/10 of their original size.

CD-R/CD-RW on which mixed audio data compressed in the ATRAC3plus/ATRAC3, or MP3 formats has been recorded by using an software other than SonicStage can also be played. With SonicStage, you cannot create a CD on which mixed audio data is recorded.

* Only ISO 9660 Level 1/2 and Joliet extension format discs can be played.

Note

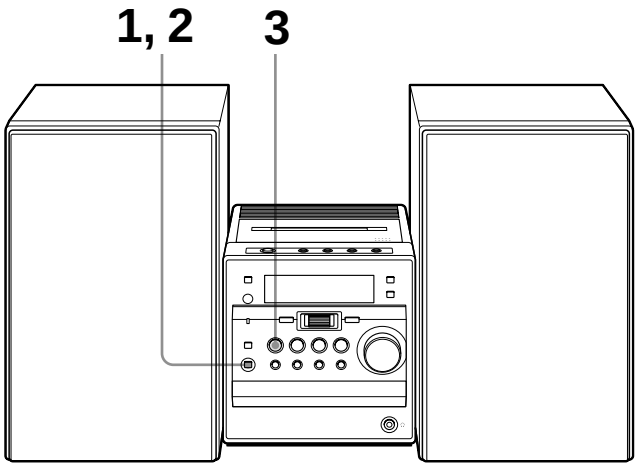
Characters that can be displayed on this CD player are listed below.
– A to Z
– a to z
– 0 to 9
– ! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [\ ] ^ _ ` { | } ~
If you use other characters on your computer using software such as SonicStage, they are displayed as "–" on this CD player.

Music discs encoded with copyright protection technologies

This product is designed to play back discs that conform to the Compact Disc (CD) standard. Recently, various music discs encoded with copyright protection technologies are marketed by some record companies. Please be aware that among those discs, there are some that do not conform to the CD standard and may not be playable by this product.

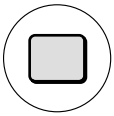
ATRAC, ATRAC3, ATRAC3plus, SonicStage and their logos are trademarks of Sony Corporation.

Playing a CD

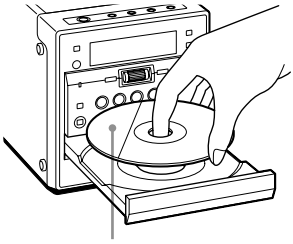


For hookup instructions, see pages 35 - 36.

1 ⏏OPEN/CLOSE

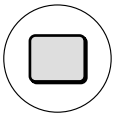


Press ⏏ OPEN/CLOSE (direct power-on) and place the CD on the CD tray.



With the label side up

2 ⏏OPEN/CLOSE



Press ⏏ OPEN/CLOSE to close the CD tray.

3

CD

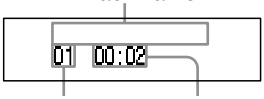
Press CD ►II (►II on the remote).

The player plays all the tracks once.

Display

Audio CD

Track name*

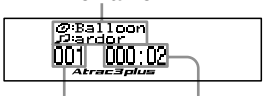


Track number **Playing time**

* When playing an audio CD containing text information such as CD-TEXT, track name appears on the display.

ATRAC CD/MP3 CD**

File name



File number **Playing time**

**When playing an MP3 CD, "MP3" appears on the display.

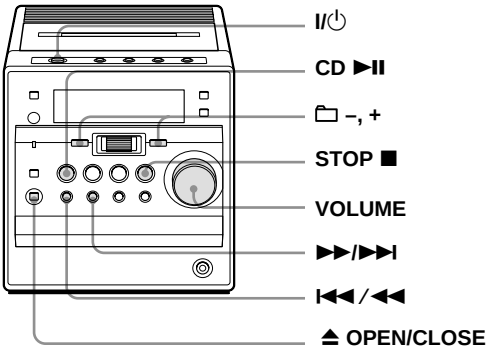
Note

Before playing an ATRAC CD/MP3 CD, this player reads all file and group information on the CD. Depending on the file structure, it may take more than a minute to read them. During this time, "Reading" is displayed.

Tips

- To listen through headphones, connect the headphones to the ∩ (headphones) jack.
- Playback starts from the point you last stopped playing (Resume play). During stop, the point to be played is displayed.
  To start play from the beginning of the first track, press STOP ■ in stop mode.
  To cancel the resume play, see page 26.

Use these buttons for additional operations



To	Do this
adjust the volume	Turn the VOLUME control. (Press VOL +*1, – on the remote.)
stop playback	Press STOP ■ (■ on the remote).
pause playback	Press CD ►II*2 (►II on the remote). The playing time of the current track/file flashes on the display. Press the button again to resume play after pause.
go to the next track	Press ►►/►►I.
go back to the previous track	Press I◄◄ / ◄◄.

*1 The button has a tactile dot.

*2 There is a tactile dot beside CD ►II on the main unit.

continued

To	Press
select a group*3	🗀 + to go forward and 🗀 – to go backward
select a file*3	▶▶/▶▶I to go forward and I◀◀/◀◀ to go backward
remove the CD	⏏ OPEN/CLOSE*4
turn on/off the player	I/⏻

*3 You can operate during play of ATRAC CDs/MP3 CDs.

*4 Once you open the CD tray, the track to start play will change to the beginning of the first track.

Notes

- If ATRAC3plus/ATRAC3 files and MP3 files are recorded on the same CD, this CD player plays the ATRAC3plus/ATRAC3 only.
- The playback capability of this CD player may vary depending on the quality of the disc and the condition of the recording device.
- Characters that can be displayed on this CD player are listed below.
  – A to Z
  – a to z
  – 0 to 9
  – ! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [\ ] ^ _ ` { | } ~

  If you use other characters on your computer using software such as SonicStage, they are displayed as "–" on this CD player.
- On a disc that has ATRAC3plus/ATRAC3/MP3 files, do not save files in other formats and do not make unnecessary groups.

The structure of ATRAC CDs/MP3 CDs

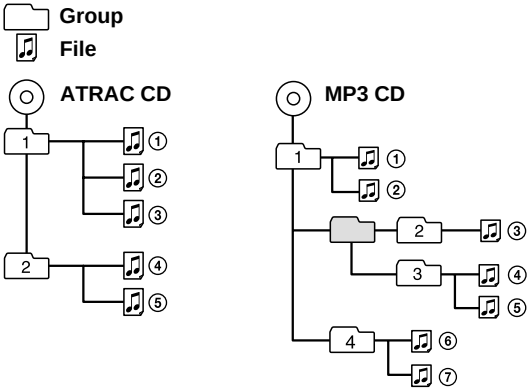
ATRAC CDs/MP3 CDs consist of "files" and "groups." A "file" is equivalent to a "track" of an audio CD. A "group" is a bundle of files and is equivalent to an "album."

For MP3 CDs, this CD player recognizes an MP3 folder as a "group" so that ATRAC CDs and MP3 CDs can be operated in the same way.

Playing order of ATRAC CDs and MP3 CDs

For ATRAC CDs, files are played in the order selected in SonicStage.

For MP3 CDs, the playing order may differ depending on the method used to record MP3 files on the disc. In the following example, files are played in order of ① to ⑦.



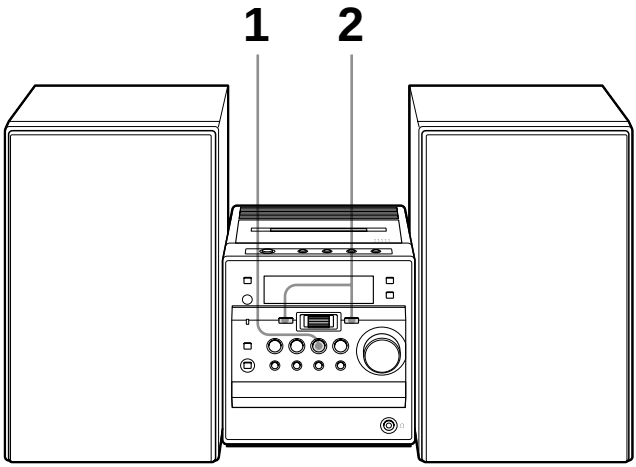
Notes on ATRAC CDs

- Maximum number of groups: 255
  Maximum number of files: 999
- CD-Rs/CD-RWs recorded in the ATRAC3plus/ATRAC3 format cannot be played on your computer.

Notes on MP3 CDs

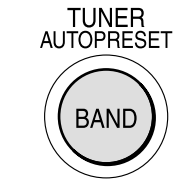
- Maximum number of groups: 100
  Maximum number of files: 400
  Maximum directory level: 8
- A group that does not include an MP3 file is skipped.
- Be sure to add the file extension “mp3” to the file name. However, if you add the file extension “mp3” to a file other than an MP3 file, the player will not be able to recognize the file properly.
- This player can play bit rates of 16 to 320 kbps, and sampling frequencies of 32/44.1/ 48 kHz. Variable Bit Rate (VBR) file can also be played.
- To compress a source in an MP3 file, we recommend setting the compression parameters to “44.1 kHz,” “128 kbps,” and “Constant Bit Rate.”
- To record up to the maximum capacity, set the writing software to “halting of writing.”
- To record to the maximum capacity at one time up on media that has nothing recorded on it, set the writing software to “Disc at Once.”

Listening to the radio



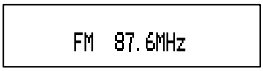
For hookup instructions, see pages 35 - 36.

1

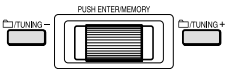


Press TUNER BAND•AUTO PRESET (BAND on the remote) repeatedly until the band you want appears on the display (direct power-on).

Display



2

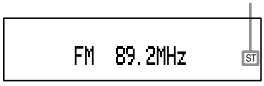


Press TUNING + or TUNING – and hold it until the frequency digits begin to change on the display.

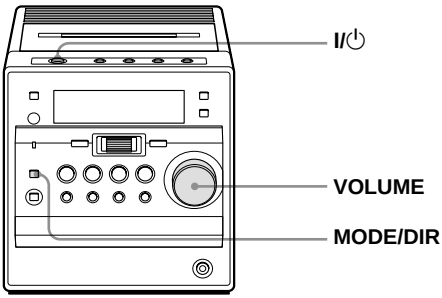
The player automatically scans the radio frequencies and stops when it finds a clear station.

If you cannot tune in a station, press TUNING + or TUNING – repeatedly to change the frequency step by step.

Indicates an FM stereo broadcast



Use these buttons for additional operations



To	Do this
adjust the volume	Turn the VOLUME control. (Press VOL +*, – on the remote.)
turn on/off the radio	Press **I**/⏻.

* The button has a tactile dot.

Tip

• If the FM broadcast is noisy, press MODE/DIR (MODE on the remote) repeatedly until “Mono” appears on the display and radio will play in monaural.

To improve broadcast reception

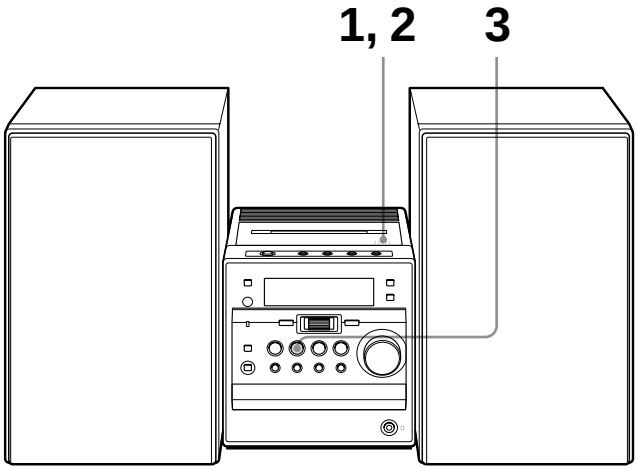
FM

Keep the FM lead antenna as horizontal as possible and reorient it (see page 35).

AM

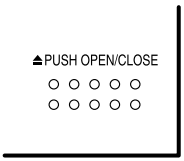
Keep the AM loop antenna away as far as possible from the player and reorient it (see page 35).

Playing a tape



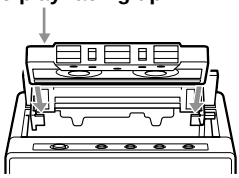
For hookup instructions, see pages 35 - 36.

1

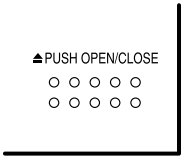


Press ⏏ PUSH OPEN/CLOSE to open the tape compartment and insert a recorded tape. Use TYPE I (normal) tape only .

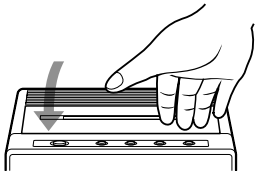
With the side you want to play facing up



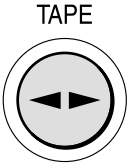
2



Press ⏏ PUSH OPEN/CLOSE to close the compartment.



3

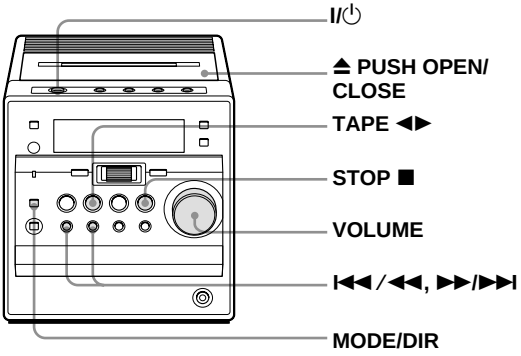


Press TAPE ◄► (◄► on the remote).

The player turns on (direct power-on) and starts playing.

Display

Use these buttons for additional operations



To	Do this
adjust the volume	Turn the VOLUME control. (Press VOL +*, – on the remote.)
stop playback	Press STOP ■ (■ on the remote).
play the reverse side	Press TAPE ◀▶ (◀▶ on the remote).
fast-forward or rewind the tape	Press ▶▶/▶▶I or I◀◀ / ◀◀.
eject the cassette	⏏ PUSH OPEN/CLOSE.
turn on/off the player	Press I/⏻.

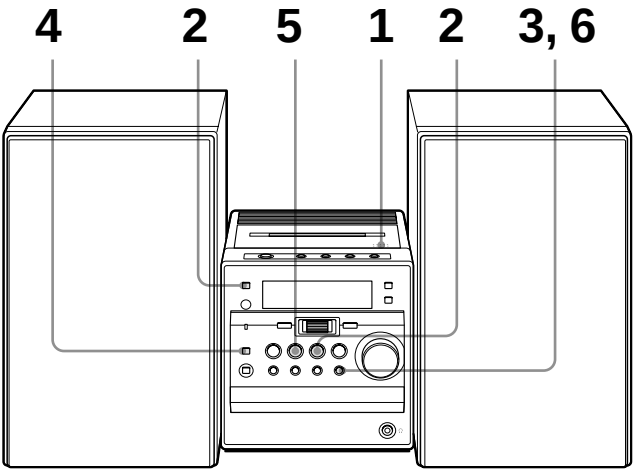
* The button has a tactile dot.

To select the direction mode of the tape

Press MODE/DIR repeatedly (MODE on the remote).

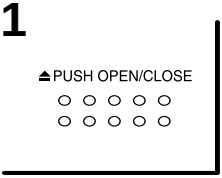
To play	Display shows
one side of the tape	⇀
both sides of the tape from the upper side to reverse side	⇄
both sides of the tape repeatedly	↻

Recording on a tape



For hookup instructions, see pages 35 - 36.
To record on a MiniDisc or DAT recorder, connect the component (see page 37).

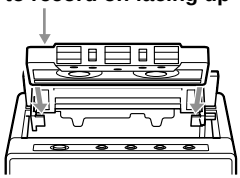
1



Press ⏏ PUSH OPEN/CLOSE to open the tape compartment, and insert a blank tape. Use TYPE I (normal) tape only.

Press ⏏ PUSH OPEN/CLOSE again to close the compartment.

With the side you want to record on facing up



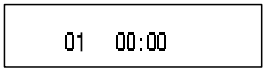
2

Select the program source you want to record.

FUNCTION

To record from the CD player: Insert a CD (see page 6) and press FUNCTION repeatedly until “CD” appears. Select a track you want to record (see pages 18 - 20).

Display



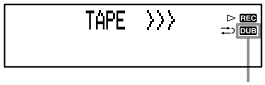
TUNER
AUTOPRESET

To record from the radio: Tune in the station you want (see page 10).

3 REC

Press REC (●/❚❚ on the remote).

"REC" and "DUB" appear on the display and the tape deck stands by for recording.



"DUB" does not appear when recording from the middle of a track or recording from the radio.

4 MODE/DIR

While "REC" is flashing, press MODE/DIR (MODE on the remote) repeatedly until ⇄ appears to record on one side or ⇄ to record on both sides.

5 TAPE

Press TAPE ◀▶ (◀▶ on the remote) repeatedly to select recording side.

If you select both sides recording or upper side recording, press TAPE ◀▶ until "▷" appears. If you record on the reverse side, press TAPE ◀▶ again until "◁" appears.

6 REC

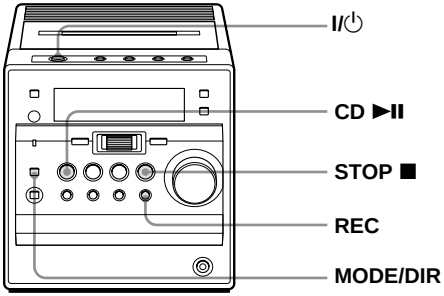
Press REC again (on the remote, while keeping ●/❚❚ pressed, press ◀▶).

Recording starts 8 seconds later when you record from the CD in stop mode.

Recording starts immediately when you record from the radio.

continued

Use these buttons for additional operations



To	Press
stop recording	STOP ■ (■ in the tape section on the remote)
pause recording*	REC once (●/II on the remote) while recording To resume recording, press the button again.
turn on / off the player	I/⏻

* Pause recording is available only when you start recording in pause mode or recording from the radio.

To record a CD from the middle of a track

1 Pause playback at the point in the middle of the track where you want to start recording.

2 Follow steps 3 - 6 on page 15.
Recording starts immediately.

3 Press CD ▶II to resume playback.

To erase a recording

1 Insert a tape you want to erase into the tape compartment with the side you want to erase facing up.

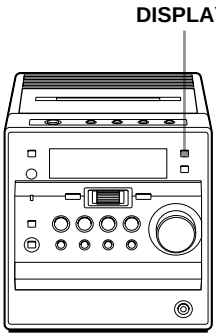
2 On the player: press REC twice.
On the remote: while keeping ●/II pressed, press ◀▶.

Tips

- (Only when "DUB" is displayed)
  When the direction mode of the tape is selected to ⇄:
  If the tape is reversed with the recording of the track unfinished, the player will record the track again from its beginning on the reverse side.
  When the direction mode of the tape is selected to ⇄:
  If the tape reaches to its end, the player stops.
- Adjusting the volume or the audio emphasis (page 29) will not affect the recording level.
- If the AM radio makes a whistling sound after you've pressed REC in step 6, press MODE/DIR (MODE on the remote) to select the position of the ISS (Interference Suppress Switch) that decreases noise most.
- To record a specific track of the CD, press MODE/DIR (MODE on the remote) in stop mode to display "1", then press REC twice (on the remote, while keeping ●/II pressed, press ◀▶).

Using the display

You can check information about the CD using the display.



Checking the information on an audio CD

Press DISPLAY. The display changes as follows:

The current track number and playing time
↓
The current track number and the remaining time of the current track
↓
The number of tracks left and the time remaining on the CD
↓
The total track number and total playing time on the CD

Tip

When you are playing an audio CD containing text information such as CD-TEXT, information is displayed.

Checking the information on an ATRAC CD/MP3 CD

Press DISPLAY. The display changes as follows:

When you are playing an MP3 CD containing files with an ID3 tag*, ID3 tag information is displayed.

* ID3 tag is a format for adding ceratin information (track name, album name, artist name, etc.) to MP3 files. This player conforms to Version 1.0/1.1/2.3 of the ID3 tag format (for MP3 files only).

The group name*1, the file name, the current file number and playing time
↓
The artist name*2, the transfer rate/ frequency, the current file number and the remaining time of the current file
↓
Total number of groups, total number of files

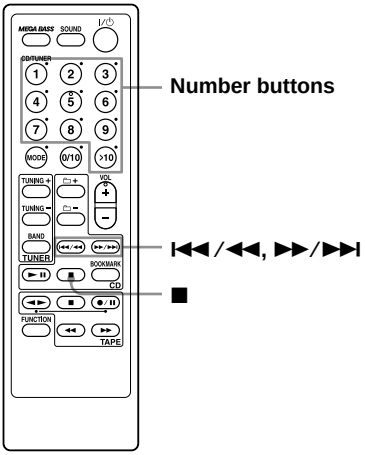
*1 If the file does not belong to any group, the group name is displayed as “Root”.

*2 If the file does not have an artist name, “– – – –” is displayed.

Locating a specific track

You can quickly locate any track on a CD using the number buttons on the remote.

You can also find a specific point in a track while playing a CD.



To locate	Press
a specific track directly	the number button of the track
a point while listening to the sound	▶▶ / ▶▶I (forward) or, I◀◀ / ◀◀ (backward) while playing and hold it until you find the point
a point while observing the display	▶▶ / ▶▶I (forward) or I◀◀ / ◀◀ (backward) in pause and hold down until you find the point

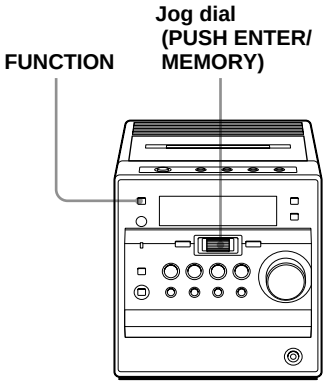
Notes

- Locating a specific track using the number buttons is only available for the tracks in the selected group.
- You cannot locate a specific track if "SHUF", "🎸", "🔁" or "PGM" is lit on the display. Turn off the indication by pressing ■.
- When you find a specific point in a file while playing ATRAC3plus/ATRAC3/MP3 files, the sound may not be heard for a few seconds.

Tips

- When you locate a track numbered over 10, press >10 first, then the corresponding number buttons.
  Example: To play track number 23, press >10 first, then 2 and 3.
- To select a track numbered over 100, press >10 twice, then the corresponding number buttons.

Searching for your favorite tracks/files



Searching for a track on an audio CD

1 Press FUNCTION repeatedly until "CD" appears on the display when the player is not in CD mode.

2 Turn the jog dial upward or downward to select the track you want, then press it to enter the selection.

The playback starts from the track selected.

To cancel the track search

Turn the jog dial until "CANCEL" appears, then press it to enter the selection.

Searching for a file on an ATRAC CD/MP3 CD

1 Press FUNCTION repeatedly until "CD" appears on the display when the player is not in CD mode.

2 While play is stopped, turn the jog dial upward or downward to select the group you want, then press it to enter the selection.

3 Turn the jog dial upward or downward to select the file you want, then press it to enter the selection.

The playback starts from the file selected.

To cancel the file search

1 Turn the jog dial upward or downward until "🗀:" appears, then press it to enter the selection.

2 Turn the jog dial until "CANCEL" appears, then press it.

continued

Tip

You can also search a file while playing an ATRAC CD/MP3 CD. When you turn the jog dial during playback, the file list of the group in which the current file will be displayed. To select a file of another group, turn the jog dial upward or downward until "🗀:" appears, then press it to select the group first and select the file you want by turning the jog dial.

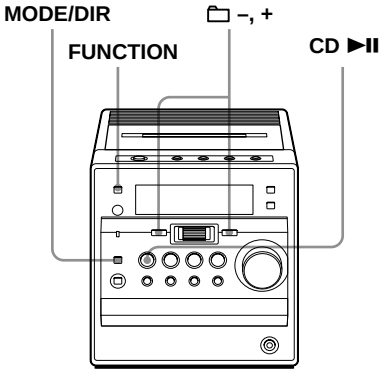
Note

When using an ATRAC CD, up to 400 file names or up to 100 group names can be displayed. If the number of files or groups surpasses these figures, a file name such as "401– – – – –" or a group name such as "101– – – – –" will be displayed instead of names.

Playing a specific group

(ATRAC CD/MP3 CD only)

You can play all the files in a specific group, and stop the player automatically.



1 Press FUNCTION repeatedly until "CD" appears on the display when the player is not in CD mode.

2 Press MODE/DIR repeatedly in stop mode until "🗀" appears on the display.

3 Press 🗀 + or 🗀 – to select the group you want to play.

4 Press CD ▶II.

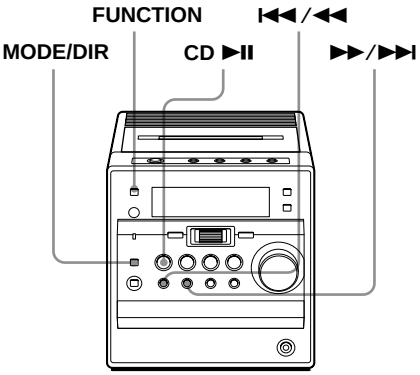
To cancel the group play

Stop playing first. Then press MODE/DIR repeatedly until "🗀" disappears from the display.

Playing a single track

(Single track play)

You can play a single track once, and stop the player automatically.



1 Press FUNCTION repeatedly until "CD" appears on the display when the player is not in CD mode.

2 Press MODE/DIR repeatedly in stop mode until "1" appears on the display.

3 Press I◄◄ / ◄◄ or ►► / ►►I to select the track you want to play.

4 Press CD ►II.

On the remote

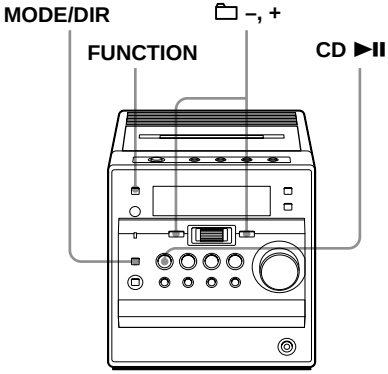
You can select the track you want directly using the number buttons.

To cancel the single track play

Stop playing first. Then press MODE/DIR repeatedly until "1" disappears from the display.

Playing tracks in random order (Shuffle play)

You can play tracks in random order.



Playing all tracks on a CD in random order

1 Press FUNCTION repeatedly until "CD" appears on the display when the player is not in CD mode.

2 Press MODE/DIR repeatedly in stop mode until "SHUF" appears on the display.

3 Press CD ►II to start Shuffle play.

continued

Playing all files in a selected group in random order (ATRAC CD/MP3 CD only)

1 Press FUNCTION repeatedly until "CD" appears on the display when the player is not in CD mode.

2 Press MODE/DIR repeatedly in stop mode until " 🗀" and "SHUF" appear on the display.

3 Press 🗀 + or 🗀 – to select the group you want to play.

4 Press CD ▶II to start Shuffle play.

To cancel Shuffle play

Stop playing first. Then press MODE/DIR repeatedly until "SHUF" or " 🗀" and "SHUF" disappear from the display.

Tip

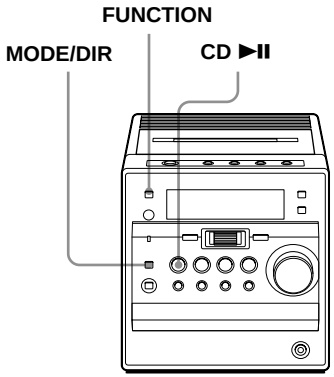
During Shuffle play, you cannot select the previous track by pressing I◀◀ / ◀◀.

Playing your favorite tracks by adding Bookmarks

(Bookmark track play)

You can add Bookmarks to up to 99 tracks (audio CD), up to 999 files (ATRAC CD) or up to 400 files (MP3 CD) for a CD.

When you open the CD tray, all Bookmarks stored in memory will be erased.



Adding Bookmarks

1 During playback of the track to which you want to add a Bookmark, press and hold CD ▶II until "Bookmark Set" appears on the display.

When the Bookmark has been added successfully, "🔖" flashes slower.

2 Repeat step 1 to add Bookmarks to the tracks you want.

On the remote

Use BOOKMARK instead of CD ▶II.

Playing the tracks with Bookmarks

1 Press FUNCTION repeatedly until "CD" appears on the display when the player is not in CD mode.

2 Press MODE/DIR repeatedly in stop mode until "🔖" and "Bookmark" appear on the display.

3 Press CD ▶II.
The playback of the tracks with the Bookmarks starts.

To remove Bookmarks

During playback of a track with a Bookmark, press and hold CD ▶II (BOOKMARK on the remote) until "Bookmark Cancel" appears on the display.

To check tracks with Bookmarks

During playback of tracks with Bookmarks, "🔖" flashes slowly on the display.

Notes

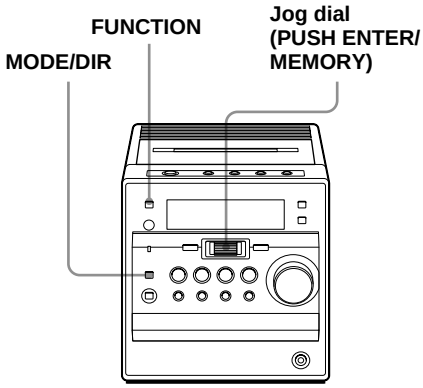
- During playback of tracks with Bookmarks, tracks are played in order of track number, and not in the order you added the Bookmarks.
- If you open the CD tray, all Bookmarks stored in memory will be erased.
- You cannot select a track with a Bookmark directly by using the number buttons on the remote.

Playing your favorite play lists (m3u play list play)

(MP3 CD only)

You can play your favorite m3u play lists.*

* An "m3u play list" is a file for which an MP3 file playing order has been encoded. To use the play list function, record MP3 files on a CD-R/CD-RW using encoding software that supports the m3u format.



1 Press FUNCTION repeatedly until "CD" appears on the display when the player is not in CD mode.

2 Press MODE/DIR repeatedly in stop mode until "🔁" appears on the display.

3 Turn the jog dial upward or downward to select a play list you want then press it to enter the selection.

continued

Playing your favorite play lists (m3u play list play) (MP3 CD only) (continued)

On the remote

1 Press FUNCTION repeatedly until "CD" appears on the display.
2 Press MODE repeatedly in stop mode until "" appears on the display.
3 Press ⏮/◀◀ or ▶▶/⏭ to start a play list you want then press ▶II.

To cancel m3u play list play

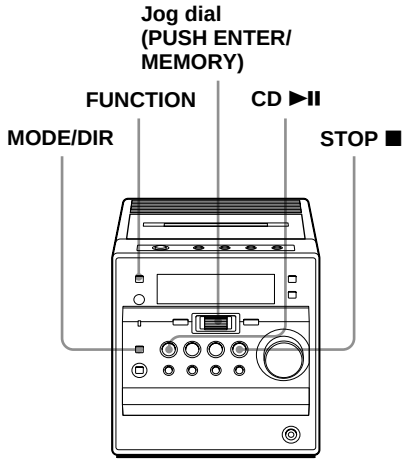
Stop playing first. Press MODE/DIR repeatedly until "" disappears from the display.

Note

You can only play the top two play lists when two or more play lists are stored.

Creating your own program (Program play)

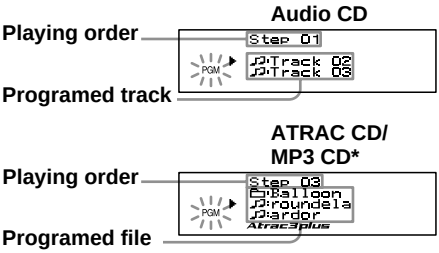
You can arrange the playing order of up to 20 tracks or files on a CD.



1 Press FUNCTION repeatedly until "CD" appears on the display when the player is not in CD mode.

2 Press MODE/DIR repeatedly in stop mode until "PGM" flashes on the display.

3 Turn the jog dial upward or downward then press it for the tracks or files you want to program in the order you want.



*You can also select another group pressing 🗀 + or 🗀 –.

4 Press CD ▶II to start Program Play.

On the remote

1 Press FUNCTION repeatedly until "CD" appears on the display.
2 Press MODE repeatedly until "PGM" appears on the display.
3 Press the number buttons or I◀◀ /◀◀, ▶▶/ ▶▶I for the tracks or files (or press 🗀 + or 🗀 – for the groups) you want to program in the order you want.
4 Press ▶II.

To cancel Program Play

Stop playing first. Then press MODE/DIR repeatedly until "PGM" disappears from the display.

To check the order of tracks before play

Press the jog dial after step 2.

Every time you press the jog dial, the track or file number appears in the programed order.

To change the current program

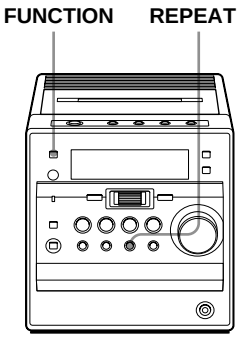
Press STOP ■ once after step 2. The current program will be erased. Then create a new program following the programing procedure.

Tips

- You can play the same program again, since the program is saved until you open the CD tray.
- You can record your own program. After you have created the program, insert a blank tape into the tape compartment then start recording (see page 15).

Playing tracks repeatedly (Repeat play)

You can play tracks repeatedly in normal play mode and other play modes you want.



1 Press FUNCTION repeatedly until "CD" appears on the display when the player is not in CD mode.

2 Play the CD.

You can play tracks repeatedly in normal play mode and other play modes you want (see pages 21– 25).

3 Press REPEAT until "↻" appears on the display.

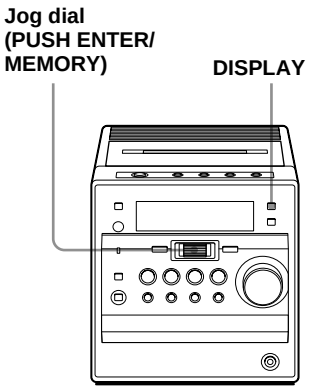
To cancel Repeat play

Press REPEAT until "↻" disappears from the display.

Changing the resume play setting

The player is initially set to start playback from the point you last stopped playing (resume play) (see page 7).

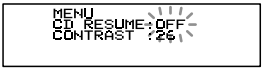
You can cancel resume play and the player always will start from the first track.



1 Press DISPLAY when the player is turned off.

2 Turn the jog dial to select “CD RESUME OFF”.

“OFF” flashes on the display.



3 Press the jog dial to enter the selection.

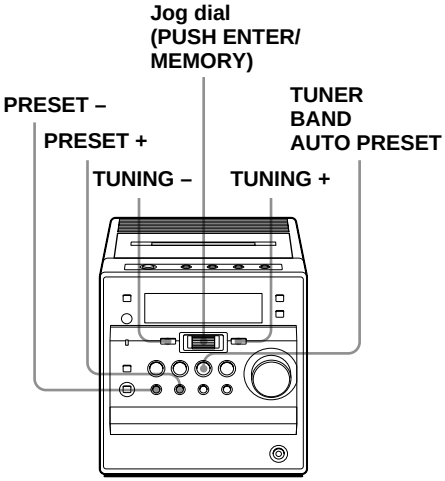
To go back to the clock display, press the jog dial again.

To reset the resume play function

In step 2 above turn the jog dial until “CD RESUME ON” appears and then press the jog dial twice.

Presetting radio stations

You can store radio stations into the player's memory. You can preset up to 30 radio stations, 20 for FM and 10 for AM in any order.



1 Press TUNER BAND•AUTO PRESET to select the band.

2 Hold down TUNER BAND•AUTO PRESET until "Auto Preset" flashes on the display.

3 Press the jog dial.
The stations are stored in memory from the lowest frequencies to the higher ones.

If a station cannot be preset automatically

You need to preset a station with a weak signal manually.

1 Press TUNER BAND•AUTO PRESET to select the band.

2 Tune in a station you want by pressing TUNING + or TUNING –.

3 Hold down the jog dial for about 2 seconds.

4 Press PRESET + or PRESET – until the preset number you want for the station on flashes.

5 Press the jog dial.
The new station replaces the old one.

On the remote

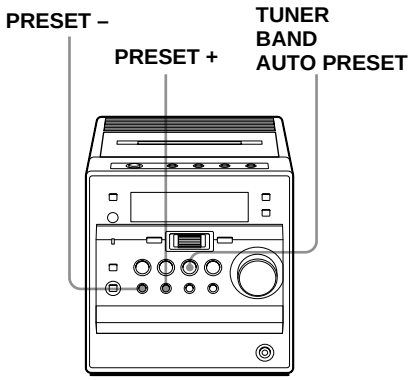
1 Press BAND until the band you want appears on the display.

2 Press TUNING + or TUNING – until you tune in the station you want.

3 Hold down the number button that you want to preset the new station on for 2 seconds.
To select the preset number over 10, press >10 first, then the corresponding number buttons. You need to hold down the last number button to enter for about 2 seconds. (Example: To select 12, press >10 and 1 first, then hold down 2 for about 2 seconds.)

Playing preset radio stations

Once you've preset the stations, use the PRESET + or PRESET – button on the player or the number buttons on the remote to tune in your favorite stations.



1 Press TUNER BAND•AUTO PRESET to select the band.

2 Press PRESET + or PRESET – to tune in the stored station.

On the remote

1 Press BAND until the band you want appears on the display.

2 Press the number button to tune in a stored station.

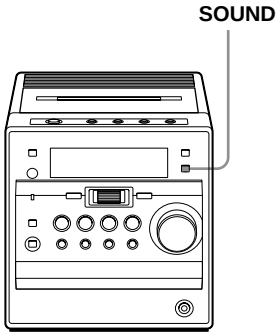
To tune in a preset station over 10, press >10 first, then the corresponding number buttons. (Example: To tune in a preset station 12, press >10 and 1 first , and then press 2.)

Selecting the audio emphasis

You can adjust the audio emphasis of the sound you are listening to.

Selecting the sound characteristic

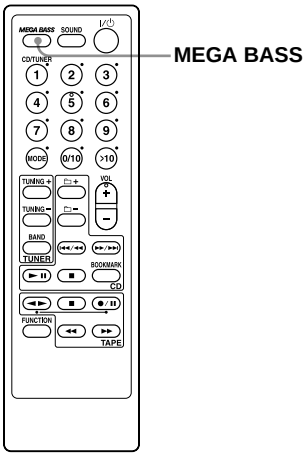
Press SOUND repeatedly to select the audio emphasis you want.



Choose	To get
	powerful, clean sounds, emphasizing low and high range audio
	light, bright sounds emphasizing high and middle range audio
	percussive sounds, emphasizing bass audio
	the presence of vocals, stressing middle range audio
	the whole dynamic range for music such as classical music

Reinforcing the bass sound

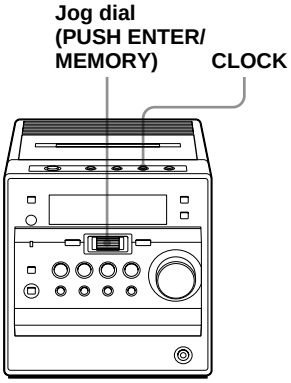
Press MEGA BASS on the remote to display “MEGABASS”.



To return to normal sound, press the button again to make “MEGABASS” disappear from the display.

Setting the clock

"– –:– –" indicator appears on the display until you set the clock.



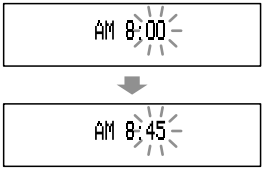
Before you begin, hook up the system (see pages 35 - 36).

1 Press and hold CLOCK until the hour digit flashes.

2 Set the clock.

① Turn the jog dial to set the hour and press it.

② Turn the jog dial to set the minutes.



3 Press the jog dial.

The clock starts from 00 seconds.

Note

If you disconnect the AC power cord, the clock display may return to "– –:– –". In this case set the clock again.

Tip

The time display system of this player is the 12-hour system.

AM 12:00 = midnight

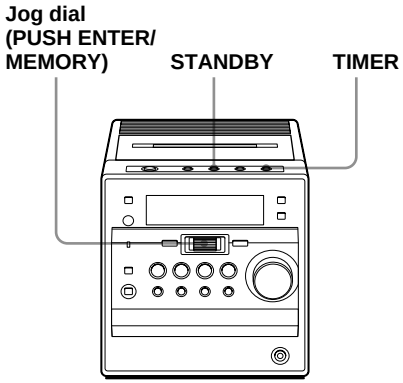
PM 12:00 = noon

To check the present time

Press CLOCK to display the clock, and press it again to go back to the previous display.

Waking up to music

You can wake up to music or a radio program at a preset time. Make sure you have set the clock (see “Setting the clock” on page 30).



Before you begin, make sure the ⏲ (clock) indicator is not lit on the display. If it is lit, press STANDBY.

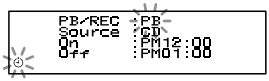
1 Prepare the music source you want to play.

Source	Do this
CD	Insert a CD.
TAPE	Insert a tape.
TUNER	Tune in a station.
LINE	Turn on the equipment connected to LINE IN.

2 Press TIMER.

The ⏲ indicator and setting display appear.

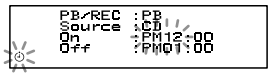
3 Turn the jog dial to select “PB”, and press the jog dial to enter the selection.



4 Turn the jog dial to select the music source you want to play (“CD”, “TAPE”, “TUNER” or “LINE”), and press the jog dial to enter the selection.

5 Set the timer to the hour and the minutes you want the music to go on.

① Turn the jog dial to set the hour and press it.



② Turn the jog dial to set the minutes and press it.

6 Set the timer to the hour and the minutes you want the music to go off. (Do as step 5.)

7 Turn the jog dial to set the volume you want.

8 Press STANDBY.

The ⏲ indicator lights up and the power goes off; the player enters the standby mode.

At the preset time, the power will go on and music will play. Then the power will go off at the preset time, and the player will enter the standby mode again.

continued

To check/change the waking up timer settings

Press TIMER to check the setting.

To change the setting, display the setting you want to change, select the setting item by pressing TUNING + or TUNING – or the jog dial and re-enter it.

To use the player before a timer playback starts

If you turn on the player, you can use it as usual (in case of the radio, if you listen to the station which is different from the one you tuned in step 1 on page 31, you will hear that station at the preset time.) Turn off the player before the preset time.

To stop play

Turn off the power.

Note

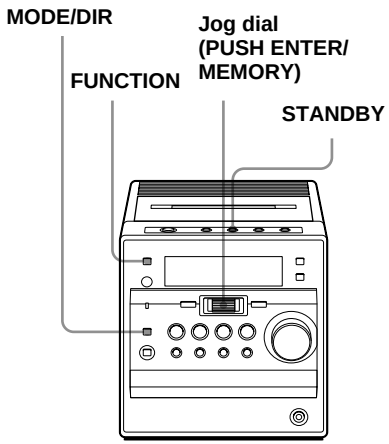
You cannot preset waking up timer and recording timer at the same time.

Tips

- To exit the standby mode, press STANDBY to make the ⏲ indicator disappear.
- The preset settings remain until you reset them.
- When you press STANDBY during playback, the power will go off and the player will enter the standby mode.

Timer-recording radio programs

You can set timer to record the radio at a certain time. You can also record the sound of the component connected to the LINE IN jack, using the timer. Make sure you have set the clock (see “Setting the clock” on page 30).



Before you begin, make sure the ⏲ (clock) indicator is not lit on the display. If it is lit, press STANDBY.

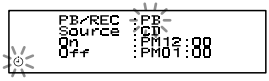
1 Tune in the radio station and insert a blank tape into the tape compartment with the side you want to record on facing up.

2 Press FUNCTION repeatedly until “TAPE” appears on the display.

3 Press MODE/DIR to select recording direction of the tape.

	Display
One side	⇄
Both sides	⇄

4 Press TIMER to make the ⏲ indicator and setting display appear.

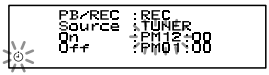


5 Turn the jog dial to select “REC”, and press the jog dial to enter the selection.

6 Turn the jog dial to select “TUNER” or “LINE”, and press the jog dial to enter the selection.

7 Set the timer to the hour and the minutes you want to start recording.

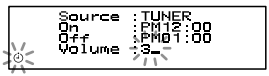
① Turn the jog dial to set the hour and press it.



② Turn the jog dial to set the minutes and press it.

8 Set the timer to the hour and the minutes you want to stop recording. (Do as step 7.)

9 Turn the jog dial to set the volume you want.



10 Press STANDBY.

The power goes off and the player enters the standby mode. The ⏲ indicator and “REC” appear.

At the preset time, the power will go on and the recording will start. Then the power will go off at the preset time, and the player will enter the standby mode again.

To check/change the recording timer settings

Press TIMER to check the setting.

To change the setting, display the setting you want to change, select the setting item by pressing TUNING + or TUNING – or the jog dial and re-enter it.

To use the player before a timer-recording starts

If you turn on the player, you can use it as usual (in case of the radio, if you listen to the station which is different from the one you tuned in step 1 on page 32, you will record that station at the preset time.) Turn off the player before the preset time.

Note

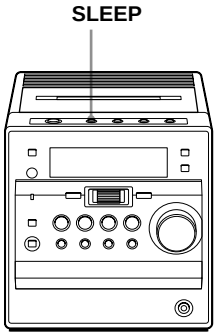
You cannot preset recording timer and waking up timer (page 31) at the same time.

Tips

- When you receive the AM program in step 1, press REC to check if the noise is heard. If so, press MODE/DIR to select the position of ISS (Interference Suppress Switch) that most decreases the noise.
- To exit the standby mode, press STANDBY once to make the ⏲ indicator and “REC” disappear.
- The preset settings remain until you reset them.
- When you select both sides recording, the recording will stop after the both sides recording finishes so that accidental recording will not be made.

Falling asleep to music

You can set the player to turn off automatically after 10, 20, 30, 60, 90 and 120 minutes, allowing you to fall asleep while listening to music.



1 Play the music source you want.

2 Press SLEEP to display “SLEEP.”

3 Press SLEEP to select the minutes until the player goes off automatically.
Each time you press the button, the indicator changes as follows:
“60” → “90” → “120” → “OFF” → “10” → “20” → “30”.

If 4 seconds have passed after you pressed SLEEP, the minutes on the display are entered.

When the preset time has passed, music stops and the player goes off automatically.

To cancel the sleep function

Press SLEEP repeatedly until “SLEEP OFF” appears on the display.

To change the preset time

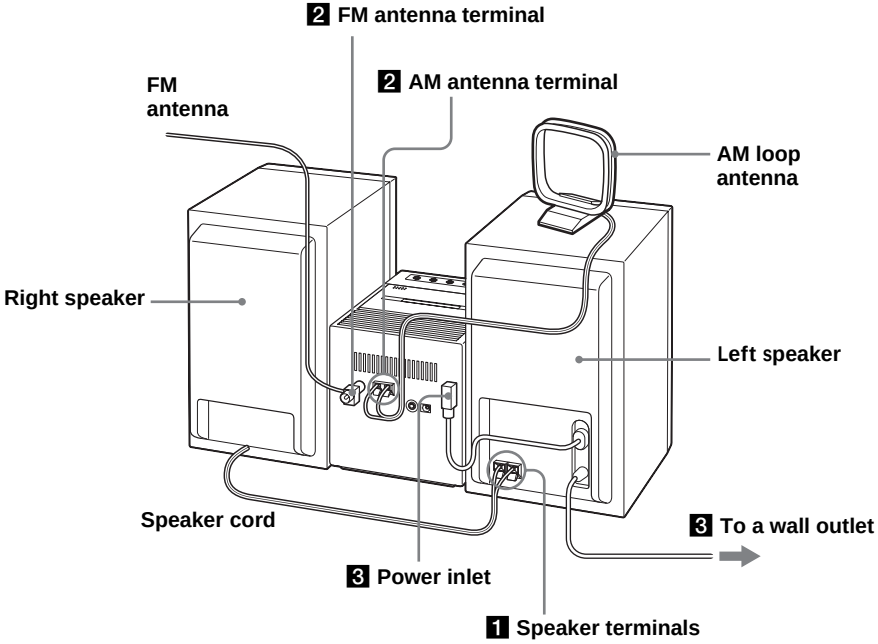
Do the steps 2 and 3 again.

Tips

- The backlight of the display goes off while the sleeping timer is on.
- You can combine the waking up timer with the sleeping timer. Set the waking up timer first (page 31), turn on the power, and then set the sleeping timer.
- You can prepare the different music for the waking up timer and the sleeping timer. However, you cannot store different radio stations.
- You can set different volume for the waking up timer and the sleeping timer. For instance, you can sleep at lower volume and wake up at higher volume.

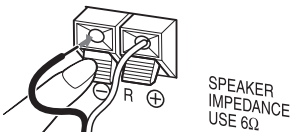
Hooking up the system

Make sure you turn off the power before making any connections.

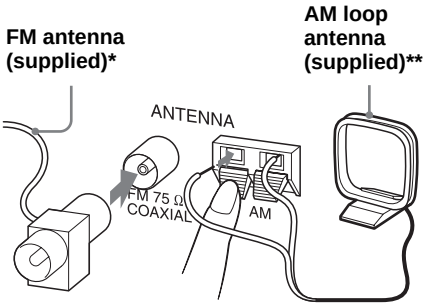


1 Hooking up the speakers

Connect the speaker cord from the right speaker to the left speaker; the white wire to red terminal and the black wire to the other terminal.



2 Hooking up the antennas

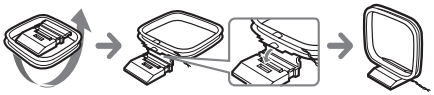


* Keep the antennas horizontal as possible.

** Reorient the antenna to improve broadcast reception.

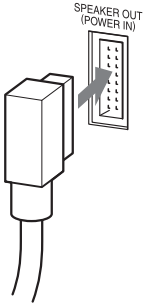
continued

Setting up the AM loop antennas



3 Connecting the AC power cord

① Connect the power cord from the left speaker to the SPEAKER OUT (POWER IN) socket located at the rear of the player.

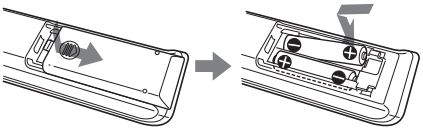


② Insert the end of the AC power cord from the left speaker to the wall outlet.

Note

If you disconnect the mains lead or a blackout has occurred, the clock setting and other preset settings may return to the initial settings. In this case you need to reset the clock and/or other preset settings.

4 Inserting batteries into the remote

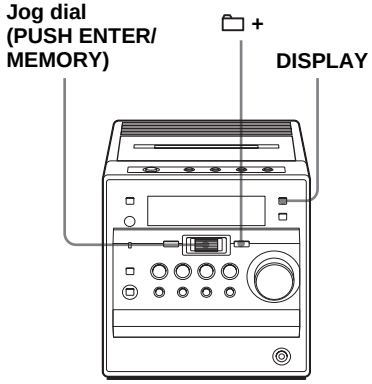


Insert two size AAA (R03) batteries (not supplied).

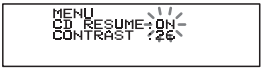
Replacing batteries

With normal use, the batteries should last for about six months. When the remote no longer operates the player, replace all the batteries with new ones.

Adjusting the contrast of the display



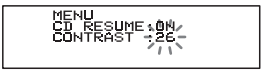
1 Press DISPLAY when the player is turned off.



The MENU display appears.

2 Press the jog dial or + to select "CONTRAST".

The contrast digits (1 - 32) flash on the display.



3 Turn the jog dial to select the number you want for the contrast you want while observing the display.

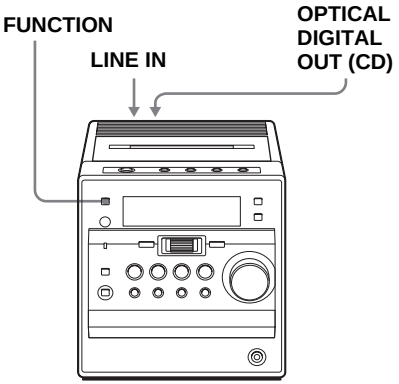
4 Press the jog dial to enter the selection.

Connecting optional components

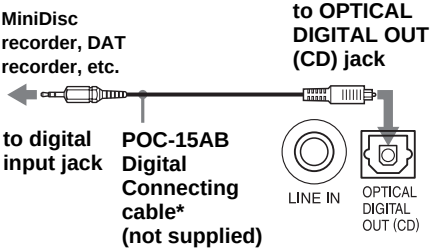
You can record an audio CD on a MiniDisc or enjoy the sound from a VCR, TV, or MiniDisc player/recorder through the speakers of this player.

Be sure to turn off the power of each component before making any connections.

For details, refer to the instruction manual of the component to be connected.



Recording an audio CD on a MiniDisc or DAT recorder



* Select a connecting cable to match the type of digital input jack on the recorder to be connected. For details, refer to the instruction manual of the component to be connected. The OPTICAL DIGITAL OUT (CD) jack of this unit is a square-shaped jack.

continued

The type of jack on the component to be connected	Model number of the connecting cable
Optical miniplug (MiniDisc recorder, etc.)	POC-15AB
Square-shaped optical connector (MiniDisc recorder, DAT recorder, etc.)	POC-15A

1 Connect the OPTICAL DIGITAL OUT (CD) jack to the digital input jack of the MiniDisc recorder or other component using a digital connecting cable (not supplied) .

2 Turn this player and the connected component on.

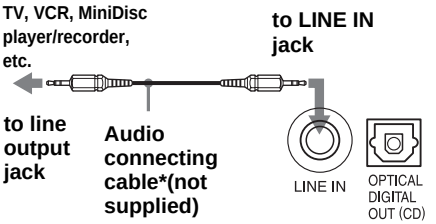
3 Get the connected component ready for recording.

4 Start playing an audio CD on this player.

Note

You cannot record an ATRAC CD/MP3 CD.

Listening to a TV, VCR or MiniDisc player/recorder



* For a MiniDisc recorder: a cable with a stereo-mini plug on both ends.
For a TV or VCR: a cable with a stereo-mini plug on one end and two phono plugs on the other end.

1 Connect the LINE IN jack to the line 2output jack of the MiniDisc player or other component using an audio connecting cable (not supplied) .

2 Turn this player and the connected component on.

3 Press FUNCTION to display “LINE” and start playing sound on the connected component.
The sound from the connected component is output from the speakers.

Note

Connect the cords securely to avoid any malfunction.

Tip

You can record the sound of the connected component. Insert a blank tape into the tape compartment, and press REC twice (on the remote, while keeping ●/❚❚ pressed, press ◄►) (see pages 15 and 16).

Precautions

On safety

- As the laser beam used in the CD player section is harmful to the eyes, do not attempt to disassemble the casing. Refer servicing to qualified personnel only.
- Should any solid object or liquid fall into the player, unplug the player, and have it checked by qualified personnel before operating it any further.
- Discs with non-standard shapes (e.g., heart, square, star) cannot be played on this player. Attempting to do so may damage the player. Do not use such discs.

On power sources

- The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.
- Unplug the player from the wall outlet when it is not to be used for an extended period of time.
- The nameplate indicating operating voltage, power consumption, etc. is located at the rear.

On placement

- Do not leave the player in a location near heat sources, or in a place subject to direct sunlight, excessive dust or mechanical shock.
- Do not place the player on an inclined or unstable place.
- Do not place anything within 10 mm of the side of the cabinet. The ventilation holes must be unobstructed for the player to operate properly and prolong the life of its components.
- If the player is left in a car parked in the sun, be sure to choose a location in the car where the player will not be subjected to the direct rays of the sun.
- Since a strong magnet is used for the speakers, keep personal credit cards using magnetic coding or spring-wound watches away from the player to prevent possible damage from the magnet.

On operation

- If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player section. Should this occur, the player will not operate properly. In this case, remove the CD and wait about an hour for the moisture to evaporate.
- If the player has not been used for a long time, set it in the playback mode to warm it up for a few minutes before inserting a cassette.

continued

Notes on CDs

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the center out.

- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight as there can be a considerable rise in temperature inside the car.
- Do not stick paper or sticker on the CD, nor scratch the surface of the CD.
- After playing, store the CD in its case.

If there is a scratch, dirt or fingerprints on the CD, it may cause tracking error.

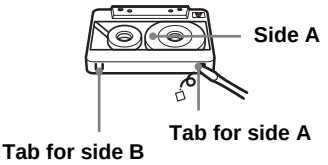
About CD-Rs/CD-RWs

This CD player can play CD-Rs/CD-RWs recorded in the ATRAC3plus/ATRAC3, MP3 or CDDA* format, but playback capability may vary depending on the quality of the disc and the condition of the recording device.

* CDDA is the abbreviation for Compact Disc Digital Audio. It is a recording standard used for the Audio CDs.

Notes on cassettes

- Break off the cassette tab from side A or B to prevent accidental recording. If you want to reuse the tape for recording, cover the broken tab with adhesive tape.



- We do not recommend the use of tape longer than 90 minutes. They are very thin and tend to be stretched easily. This may cause malfunction of the unit or sound deterioration.

If you have any questions or problems concerning your player, please consult your nearest Sony dealer.

Troubleshooting

General

The power is not on.

- Connect the AC power cord to a wall outlet securely.

There is no audio.

- Press I/⏻ to turn on the player.
- Adjust the volume.
- Unplug the headphones when listening through speakers.

Noise is heard.

- Someone is using a portable telephone or other equipment that emits radio waves near the player. → Move the portable telephone, etc., away from the player.

CD Player

“No Disc” lights on the display even when a CD is in place.

- Place the CD with the label surface up.
- The CD-R/CD-RW was not finalized. Finalize the CD-R/CD-RW with the recording device.
- There is a problem with the quality of the CD-R/CD-RW, recording device, or application software.
- The CD-R/CD-RW is blank.

The CD does not play.

- Place the CD with the label surface up.
- Clean the CD.
- Take out the CD and leave the CD compartment open for about an hour to dry moisture condensation.

The sound drops out.

- Reduce the volume.
- Clean the CD, or replace it if the CD is badly damaged.
- Place the player in a location free from vibration.
- Clean the lens with a commercially available blower.
- The sound may drop out or noise may be heard when using poor quality CD-Rs/CD-RWs or if there is a problem with the recording device or application software.

“No File” is displayed.

- You are trying to play a CD-R/CD-RW that does not contain an ATRAC file or MP3 file. (page 4)

Radio

The audio is weak or has poor quality.

- Move the player away from the TV.

The picture of your TV becomes unstable.

- If you are listening to an FM program near the TV with an indoor antenna, move the player away from the TV.

continued

Tape Player

The tape does not move when you press an operation button.

- Insert the tape properly and close the tape compartment securely.

The REC button does not function/The tape does not play.

- Make sure the safety tab of the tape in the tape compartment is in place. If not, “No Tab” will be displayed.
- Press FUNCTION to switch the function of the player to “TAPE”.

The tape does not erase completely.

- Clean the erasing heads (see page 43).
- The source which was recorded on TYPE II (high position) or TYPE IV (metal) tape is being played. Record on TYPE I (normal) tape and play.

The tape does not record.

- Make sure the tape is inserted properly. If not, “No Tape” will be displayed.
- Make sure the safety tab of the tape in the tape compartment is in place. If not, “No Tab” will be displayed.

The audio is weak/The audio quality is poor.

- Clean the heads, pinch rollers and capstans (See page 43).
- Demagnetize the heads using a demagnetizer (see page 43).

The tape player cannot be paused during playback.

- The tape player can be paused during recording only.

Timer

The timer does not operate.

- Make sure the time on the clock is correct.
- Check to see if the AC power had been cut off.
- Make sure the tape has not wound to the end.
- Make sure the ⏲ (clock) indicator is displayed.

Remote

The remote does not function.

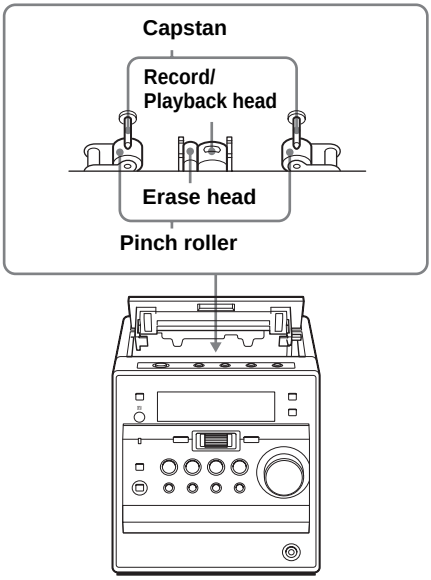
- Replace all the batteries in the remote with new ones if they are weak.
- Make sure that you are pointing the remote at the remote sensor on the player.
- Remove any obstacles in the path of the remote and the player.
- Make sure the remote sensor is not exposed to strong light such as direct sunlight or fluorescent lamp light.
- Move closer to the player when using the remote.

After trying the above remedies, if you still have problems, unplug the AC power cord. After all the indications on the display disappear, plug the power cord in again. If the problem persists, please consult your nearest Sony dealer. In that case, be sure to bring the left speaker which contains the power section along with the main unit (CMT-A70).

Maintenance

Cleaning the tape heads and tape path

Wipe the heads, the pinch rollers and the capstans with a cleaning swab slightly moistened with cleaning fluid or alcohol after every 10 hours of operation for optimum playback and recording quality. To make the best possible recording, however, we recommend that you clean all surfaces over which tape travels before each recording.



After cleaning, insert a tape when the areas cleaned are completely dry.

Demagnetizing the tape heads

After 20 to 30 hours of use, enough residual magnetism will have built up on the tape heads to begin to cause loss of high frequency sound and hiss. At this time, you should demagnetize the heads and all metal parts in the tape path with a commercially available tape head demagnetizer.

Cleaning the cabinet

Clean the cabinet, panel and controls with a soft cloth slightly moistened with a mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzine.

Specifications

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 6 Ω loads, both channels driven from 100 - 10,000 Hz; rated 55 W per channel-minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.

Other Specifications

CD player section

System
  Compact disc digital audio system
Laser diode properties
  Material: GaAlAs
  Wave length: 780 nm
  Emission duration: Continuous
  Laser output: Less than 44.6 µW
  (This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Spindle speed
  400 r/min (rpm) to 1 000 r/min (rpm) (CLV)
Number of channels
  2
Frequency response
  20 - 20 000 Hz +0/–1 dB
Wow and flutter
  Below measurable limit

Radio section

Frequency range
  FM 87.5 - 108 MHz
  AM 530 - 1 710 kHz
Antennas
  FM: Lead antenna
  AM: Loop antenna

Cassette-corder section

Recording system
  4-track 2 channel stereo
Fast winding time
  Approx. 112 s (sec.) with Sony cassette C-60
Frequency response
  TYPE I (normal): 50 - 15 000 Hz

General

Speaker
  Tweeter: 4 cm (1 5/16 in.) dia., 6 Ω
  Woofer: 13 cm (5 1/8 in.) dia., 6 Ω
Input
  LINE IN jack (stereo minijack)
  Minimum input level 430 mV
Outputs
  Headphones jack (stereo minijack):
    For 8 - 64 W impedance headphones
  OPTICAL DIGITAL OUT (CD) (optical output connector):
    Wavelength: 630 - 690 nm
Power output
  60 W + 60 W (at 6 W, 10% harmonic distortion)
Power requirements
  For personal audio system:
    120 V AC, 60 Hz
  For remote control:
    3 V DC, 2 size AAA (R03) batteries
Power consumption
  100 W
Dimensions
  Player: approx. 136 × 151.8 × 204 mm (w/h/d) (5 3/8 × 6 × 8 1/8 inches) (incl. projecting parts)
  Speaker: approx. 164 × 267 × 255 mm (w/h/d) (6 1/2 × 10 5/8 × 10 1/8 inches) (incl. projecting parts)
Mass
  Player: approx. 1.6 kg (3 lb. 9 oz.)
  Left speaker: approx. 5.6 kg (12 lb. 8 oz.)
  Right speaker: approx. 2.9 kg (6 lb. 8 oz.)
Supplied accessories
  Remote control (1)
  FM lead antenna (1)
  AM loop antenna (1)
  CD-ROM (SonicStage) (1)
  SonicStage Installation/Operating Guide (1)

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Design and specifications are subject to change without notice.

Optional accessories

Sony MDR headphones series

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For the customers who purchased this product in the USA

Product registration

Please register this product on line at www.sony.com/shelfreg
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Proper registration will enable us to send you periodic mailings about software upgrades, new products, services and other important announcements. Thank you.

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